

# Product data sheet

## Characteristics

# C63F4TM500D1

Circuit breaker, ComPacT NSX500 DC PV,  
10kA/1000VDC, 4 poles, TM-DC PV trip unit  
500A



### Main

Range	ComPacT new generation
Product name	ComPacT NSX DC PV
Device short name	NSX500 DC PV
Product or component type	Circuit breaker
Device application	Photovoltaic
Poles description	4P
[In] rated current	500 A at 40 °C
[Ue] rated operational voltage	1000 V DC
Network type	DC
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
[Icu] rated ultimate short-circuit breaking capacity	10 kA Icu at 1000 V DC 4 poles in series conforming to IEC 60947-2
Performance level	F 10 kA 1000 V DC
Trip unit name	TM-DC
Trip unit technology	Thermal-magnetic
Trip unit protection functions	LI
Control type	Toggle
Circuit breaker mounting mode	Fixed

### Complementary

[Ui] rated insulation voltage	1000 V DC conforming to IEC 60947-2
[Uiimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	10 kA at 1000 V DC conforming to IEC 60947-2
Mechanical durability	5000 cycles
Electrical durability	1000 cycles at 1000 V In
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back
Upside connection	Front
Downside connection	Front Rear
Connection pitch	45 mm
Protection type	L : for overload protection (thermal) I : for short-circuit protection (magnetic)
Trip unit rating	500 A at 40 °C
Long-time pick-up adjustment type $lr$ (thermal protection)	Adjustable
[lr] long-time protection pick-up adjustment range	0.7...1 x In
Long-time protection delay adjustment type $tr$	Fixed
Instantaneous protection pick-up adjustment type $li$	Adjustable
[li] instantaneous protection pick-up adjustment range	5...10 x In

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Earth-leakage protection	Without
Width (W)	225 mm
Height (H)	185 mm
Depth (D)	110 mm
Net weight	8.1 kg

## Environment

Standards	EN/IEC 60947
Product certifications	CCC[RETURN]EAC[RETURN]Marine
Overvoltage category	Class II
Electrical shock protection class	Class II
Pollution degree	3 conforming to IEC 60664-1
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C
Relative humidity	0...95 %
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	30.0 cm
Package 1 Width	30.0 cm
Package 1 Length	40.0 cm
Package 1 Weight	10.0 kg
Unit Type of Package 2	P12
Number of Units in Package 2	36
Package 2 Height	50.0 cm
Package 2 Width	80.0 cm
Package 2 Length	120.0 cm
Package 2 Weight	372.0 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	No need of specific recycling operations
Halogen content performance	Halogen free plastic parts product